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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,910	06/24/2003	Shuichi Takayama	UOM 0272 PUSP	2157
22045	7590 I 1/03/2006		EXAMINER	
BROOKS KUSHMAN P.C.			NAFF, DAVID M	
1000 TOWN CENTER TWENTY-SECOND FLOOR			ART UNIT	PAPER NUMBER
SOUTHFIE	LD, MI 48075		1657	
			DATE MAILED: 11/03/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/602,910	TAKAYAMA ET AL.			
		Examiner	Art Unit			
		David M. Naff	1657			
 Period for	The MAILING DATE of this communicati Reply	on appears on the cover sheet	with the correspondence addres	is		
WHICH - Extensi after SI - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR A STATUTORY STATUTORY PERIOD FOR A STATUTORY WILLIAM S	NG DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may tion. y period will apply and will expire SIX (6) M y statute, cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).			
Status	·					
1)⊠ F	Responsive to communication(s) filed or	n 02 August 2006.				
,—	· · · · · · · · · · · · · · · · · · ·	This action is non-final.				
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
C	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositio	n of Claims		•			
4) <b>×</b>	4)⊠ Claim(s) <u>25-38</u> is/are pending in the application.					
4:	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□ (	5) Claim(s) is/are allowed.					
6)⊠ (	☑ Claim(s) <u>25-38</u> is/are rejected.					
7) 🗌 Č	Claim(s) is/are objected to.					
8) <u> </u>	Claim(s) are subject to restriction	and/or election requirement.				
Applicatio	n Papers					
9) <u></u> ⊤	he specification is objected to by the Ex	aminer.	,			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)□ T	he oath or declaration is objected to by	the Examiner. Note the attach	ed Office Action or form PTO-1	· <b>52.</b>		
Priority un	der 35 U.S.C. § 119					
12)[] A	cknowledgment is made of a claim for f	oreign priority under 35 U.S.C	. § 119(a)-(d) or (f).			
a) <u></u>	] All b) ☐ Some * c) ☐ None of:		, ,			
1	1. Certified copies of the priority documents have been received.					
. 2	2. Certified copies of the priority documents have been received in Application No					
3	Copies of the certified copies of the		en received in this National Sta	ge		
	application from the International	•				
* See the attached detailed Office action for a list of the certified copies not received.						
	•	•				
Attachment(	S)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
	of Draftsperson's Patent Drawing Review (PTO-sation Disclosure Statement(s) (PTO/SB/08)		lo(s)/Mail Date of Informal Patent Application			
	Paper No(s)/Mail Date 6) Other:					

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## DETAILED ACTION

An amendment of 8/2/06 in response to an office action of 5/2/06 canceled claims 1-24 and added new claims 25-38.

Claims examined on the merits are 25-38, which are all claims in the application.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C.

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 25-38 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Support is not found in the specification for the invention being a method for the generation of cracks on a coated polymer substrate as now required by the preamble of claim 25. The specification describes the invention being a method for nanopatterning of a substrate as required by the preamble of original claim 1. There is no description of generating cracks without nanopatterning of a substrate.

Support is not found in the specification for the polymer substrate not being deformable when using a brittle layer as now

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encompassed by claim 25. If the polymer substrate is not deformable, cracks will not form when strain is applied.

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In claims 32, 33 and 36, support is not found in the specification for a "crack coating" as a coating being applied to surfaces. While the specification discloses coating cracks, the specification does not use the term "crack coating", in regard to a coating applied. Applying a crack coating can mean applying a coating designed specifically for cracks, which is not supported in the specification.

10 Conclusion

The claims are free of the prior art.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-

David M. Naff Primary Examiner Art Unit 1657 Page 4

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9197 (toll-free).